

11 600 AM
Legal
Lisa Moreno

LAW OFFICES

ROSS & HARDIES

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

150 NORTH MICHIGAN AVENUE

CHICAGO, ILLINOIS 60601-7567

312-558-1000

TWX NUMBER
910-221-1134
TELECOPIER
312-750-8600

829 FIFTH AVENUE
NEW YORK, NEW YORK 10017-4608
212-949-7075

880 HOWARD AVENUE
SOMERSET, NEW JERSEY 08875-8738
201-563-2700

888 16TH STREET, N.W.
WASHINGTON, D.C. 20008-4103
202-298-8800

EPA Region 5 Records Ctr.



307700

TELECOPIER COVER LETTER

DATE: 9/23/88

TIME: 9:50

TO: Lisa Moreno

AT: IEPA-Springfield

FROM: Jim Harrington

AT: Ross & Hardies

8 PAGES TO FOLLOW

MESSAGE:

Re: LTV Coke Plant

IF THERE ARE ANY PROBLEMS, CONTACT US AT (312) 558-1000, Ext. _____

TELECOPIER OPERATOR: _____

AUTOMATIC RECEIVE LINES

(312) 750-8600 SANYO SANFAX 725 - 1, 2, 3 or 6 minutes modes available

OR (312) 750-8689 SANYO SANFAX 625 - 1, 2, 3 or 6 minutes modes available.

(12/87)

00-27-00 23:29 T-

#147 P02

5

schedule contained therein, and by undertaking the following emission control program:

*Request 6 month
2 phase program
1. Quarterly
progress
reports*

	<u>Completion Date</u>
(a) Complete replacement of all coke side and push side doors with new design doors.	March 31, 1988
(b) Complete installation of twenty-four (24) new door jambs and new design jamb sealing systems.	June 30, 1988
(c) Complete installation of forty-eight (48) new door jambs and new design jamb sealing systems.	September 30, 1988
(d) Complete installation of seventy-two (72) new door jambs and new design jamb sealing systems.	December 31, 1988
(e) Complete installation of ninety-six (96) new door jambs and new design jamb sealing systems.	March 31, 1989
(f) Complete installation of one-hundred and twenty (120) new door jambs and new design jamb sealing systems.	June 30, 1989

11. LTV shall achieve compliance with the following limitations:

(a) On and after May 1, 1988, there shall be no visible emissions attributable to oven door and chuck door leaks from more than 5 percent of the doors on Coke Battery No. 2. Compliance with this provision shall be determined in accordance with the methods described in Exhibit 2 which is attached hereto.

04/25/88

CHICAGO WORKS COKE PLANT

Jamb Packing Program Sequence:

1. Ovens to be repaired are pushed and not charged with coal.
2. Heat is reduced on ovens being repaired from 2400 degrees F to approximately 1800 degrees F.
3. Cerafelt bulkhead is installed.
4. Ovens out of service experience some thermal contraction and carbon is burned off. Any flaws are open to the exhaust gas flues and the main stack.
5. When repair is complete oven is pressurized and sprayed with silica dust to aid in sealing flaws.
6. Ovens are recharged with coal.
7. During coking operation, carbon builds up resealing flaws.
8. By 2nd or 3rd charge ovens are resealed and no emissions occur.

In order to meet USEPA/LTV jamb repair schedule of completion by June 1989, 2/3 ovens must be repaired each week.

5. INSTALL NEW ROPE PACKING AT ALL DOOR JAMB/FACEPLATE INTERFACES (120 LOCATIONS)

The original design used a cerafelt blanket at seals #2 and #5. Comments from item 4 above also apply.

6. CERAMIC WELD ALL SPALLED REFRACTORY (BOTH SIDES AT EACH DOOR JAMB-APPROXIMATELY 3,400 LB. OF MATERIAL WILL BE REQUIRED)

Thermal and mechanical shock caused the refractory to spall along the vertical edges of the oven, adjacent to the door jamb. Repairs are required to reestablish seal #2, which is the first line of containment for gases in the coke chamber. Presently, seal #2 does not exist, except as a temporary trowel-patched seal, which may last only several days.

7. REPLACE DAMAGED REFRACTORY ALONG THE TOP OF THE DOOR OPENING (120 LOCATIONS)

Thermal and mechanical shock caused the refractory to spall along the top of the door, adjacent to the door jamb. Repairs are required to provide a seal along the door tops at the refractory interface.

8. TROWEL PATCH BETWEEN THE DOOR JAMB AND NEWLY WELDED REFRACTORY REPAIR (120 LOCATIONS)

After the refractory has been welded to reestablish the #2 seal, the 3/8" gap must be trowel patched to aid in protecting the rope packing of the #2 seal against the oven temperatures.

RCV BY: XEROX TELECOPIER 7010 : 9-23-88 9:53AM ;
 Sep. 23 '88 9:50 0000 ROSS & HARDIES

750 8689
 312-750-8689

43309: # 5
 P. 5

CHICAGO WORKS - COLE PLANT
 SCHEDULE

PROJECT: BATTERY - BDDF JAMB REPAIRS
 AREA: COLE PLANT
 DATE: DEC. 9, 1987
 ENGINEER: MAY

	1987												1988											
	JU	JL	AU	SE	OC	NO	DE	JA	FE	MA	AP	MAY	JUN	JUL	AUG	SE	OC	NO	DE					
TRIAL TEST																								
A) COMPLETE CHANGEOUT JAMB/FACE PLATE/BUCASTAY (OVEN #17 COLE SIDE)																								
B) CHANGEOUT BDDF JAMB WITH NEW PACKING PROGRAM (OVEN #23 COLE SIDE)																								
C) CONTOUR BASKET PROGRAM (OVEN #4 PUSHER SIDE)																								
D) CONTOUR BASKET PROGRAM (OVEN #3 PUSHER SIDE)																								
E) CONTOUR BASKET PROGRAM (OVEN #2 PUSHER SIDE)																								
F) CONTOUR BASKET PROGRAM (OVEN #1 PUSHER SIDE) (CLAMPING FRAME TEST)																								
2. CLAMPING FRAME ENGINEER & FABRICATION																								
3. EPA PRESENTATION																								
4. EIGHTEEN MONTH REPAIR PROGRAM																								
A) EVALUATION PERIOD (15 WKS)																								
B) TWO JAMBS / WEEK (65 WKS)																								
5. CERAMIC WELDING																								
A) EVALUATE/TEST																								
B) REPAIRS																								
6. BDDF CLEANERS (4)																								

D PLANNED START BY FINISH

Mr. Edward Wojciechowski
December 31, 1987
Page 2

Although the schedule extends into 1989, we should see significant and continuing progress on the door/jamb leak problem.

Please call me or Bill West if you have any questions regarding the above information.

Very truly yours,

Mary Lou Harmon

Mary Lou Harmon ✓
Manager Air Quality Control
Environmental Control

MLH/dh

Attachments

cc: Debra A. Klassman
Assistant Regional Counsel
U.S. EPA, Region V

James Brown
U.S. Department of Justice

1953b

bcc: C. Broman
J. D. Donohoe
D. J. Heredia
S. C. Houk
K. Nay
H. L. Page
R. Veitch
W. L. West
T. K. Wrenn